Collaborative Automation Team CAT



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CAT Tasking #55: Data Quality Report Card/Surface Data

- The CAT worked jointly with the Surface CDM Team (SCT) to examine the existing Data Quality (DQ) report card metrics in conjunction with the proposed surface metrics to determine the most accurate data field and methods for use in the measurement of data quality.
- STATUS: CAT/SCT concurred with the surface metrics as proposed by the Surface Outreach Group and recommended they be added to the data quality report card. The CSG approved the recommendation in October of 2015.





Data Quality Report Card/Surface Data Element Integration

- Current Data Quality Report Card Metrics:
- 1. Cancels that Flew
- 2. Time-Out Cancels
- 3. Undeclared flights
- Surface CDM Data Quality Metrics:
- 1. Flight Initialization Lead Time
- 2. Off-Block Accuracy
- 3. Timely Provision of Actual Off Block Time (AOBT)
- 4. Data comprehensiveness





Flight Initialization Lead Time

Description

- Measures how far in advance Flight Operators provide flight information prior to the planned departure time
- Applicable regardless of a Departure Metering Program (DMP) being in effect

Measurement

Flight Initialization, Initial Off-Block Time (IOBT)	Credits
240 or more minutes prior to IOBT	15 credits
240-121 minutes prior to IOBT	10 credits
120-61 minutes prior to IOBT	5 credits
Less than 60 minutes prior to IOBT	0 credits





Off-Block Time Accuracy

Description

- Provides an indication of the accuracy of an EOBT prior to pushback of the flight
 - Compares the history of the EOBT and AOBT of a flight
- Applicable only when a Departure Meter Program (DMP) is not in effect





Off-Block Time Accuracy Measurement

Time before AOBT	Accuracy (Difference between EOBT and AOBT)	Credits
Between 240 and 121 minutes	+/- 20 minutes	+ 5
Between 120 and 61 minutes	+/- 15 minutes	+ 10
Between 60 and 31 minutes	+/- 10 minutes	+ 10
Between 30 and 1 minutes	+/- 5 minutes	+ 10
At AOBT	+/- 5 minutes	+ 15
Total Credits		Minimum of 0, Maximum of 50





Timely Provision of Actual Off-Block Time

Description

- Measures how quickly the AOBT data element is provided after the flight pushes back from the gate
- Applicable regardless of a DMP being in effect

Measurement

Provision of Actual Off-Block Time (AOBT)	Credits
Provided within 5 minutes of AOBT	15 credits
Provided more than 5 minutes after AOBT	5 credits
Not Provided	0 credits





Data Comprehensiveness

Description

- Measures how comprehensively additional surface data elements were provided
- Applicable regardless of a DMP being in effect

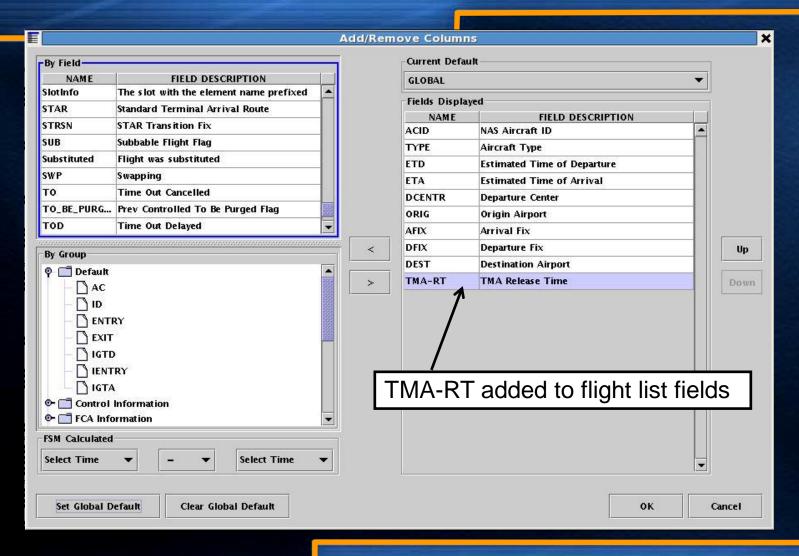
Measurement

Data Comprehensiveness	Credits
Provided Gate Assignment	10 credits
Provided Tail Number	10 credits
Provided Cancellation with EOBT always in future	50 credits
Provided Cancellation with EOBT 1 to 30 minutes in the past	25 credits
Provided Cancellation with EOBT more than 30 minutes in past	0 credits
Provided Cancelation Information and operates w/out reinstatement	0 credits





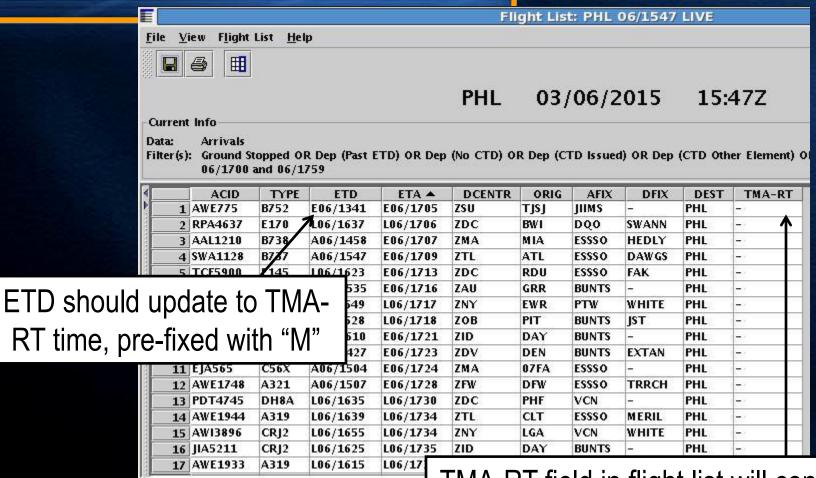
TMA Release Time (TMA-RT) Field







TMA Release Time (TMA-RT) Field cont.



TMA-RT field in flight list will contain the scheduled TBFM departure time





Task #68: CDM Data

- Evaluate current TFMS data elements to identify which specific data elements:
 - Will be restricted from distribution beyond CDMmembers and, if restricted, to what degree
 - Will be required as a basis for CDM membership in the CDM data exchange process, making provisions for Airport Authority membership





The CDM Automation Team

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- Mike McAfee
- Jim McClay
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- Mike Namendorf
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AAL



